



# FIZIKA

**Understand, Apply Achieve.**

Information Brochure

[fizika.gramoly.org](http://fizika.gramoly.org)

# FIZIKA

## Understand, Apply, Achieve.

### Stage I

#### Round I

04-Sep-2021  
18:30 UTC to  
18:29] UTC next day

05-Sep-2021  
[00:00, 23:59] IST  
Open to All!

[Click here to convert timings.](#)

#### Round II

11-Sep-2021  
1830 UTC to  
1829 UTC next day

12-Sep-2021  
[0000, 2359] IST  
Open to All!

[Click here to convert timings.](#)

### Stage II

#### ROUND III

Tentatively Mid-  
January Details to  
be announced  
soon

FIZIKA is a 3-round based free annual competition meant for individuals at any stage that consists of the creative application of high school physics concepts. We aim to introduce learners to some unconventional applications of theory, hone up their problem-solving aptitude and expand their critical thinking, which in turn will make them better problem solvers. Furthermore, We love sharing some exciting problems with learners.

Spanning across 2 rounds taking place on consecutive Sundays [5 Sep, 12 Sep] Stage I of FIZIKA is open to all. An aggregate score from these rounds will be considered according to

$$[R_1+9R_2]/10$$

The top 50 available candidates, based on their scores, shall qualify for Stage-II. In case of a tie, preference will be given by hidden tiebreakers.

#### Round I

30 Minutes  
(+2, 0, 0)

##### Part A

5 Questions  
Integer Answers [0, 9]

##### Part B

5 Questions  
Multiple Choice Multiple Correct  
Questions

**\$7 Complementary Prize to all participants of round I who appear for Round II**

#### Round II

60 Minutes  
(+2, 0, 0)

##### Part A

8 Questions  
Integer Answers [0, 9]

##### Part B

8 Questions  
Multiple Choice Multiple Correct  
Questions

**Prizes worth 66\$ to Top 200 of Round II**

# Organized by

## GRAMOLY

GRAMOLY is a non-profit organization, rather, a vision, which seeks to bring about a change in the way STEM subjects are imparted to the general public. We wish to build up a community that will rally for this cause and ultimately is one of the mediums through which STEM education is revolutionized around the globe. From exceptional lectures, hand-outs to seminars, and excellent quality content, we will provide it all, free of cost, to everyone.

 [GRAMOLY](#)

 [gramoly.org/socials/](https://gramoly.org/socials/)

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# Powered by

## INSP

Indian School of Physics, run by Nitin Sachan sir (an IIT-Madras Alum, a top-notch physics teacher and a passionate physics lover), makes intriguing physics videos focusing on challenging problems and creative solutions. He also makes videos on topics which is generally not taught in school but are helpful in problem-solving. His videos are beneficial for students preparing for competitive exams and olympiads or problem-solving enthusiasts in general.

 [Indian School Of Physics](#)  [INSP](#)

## Physics SirJEE

Physics Sir JEE run by Janardanudu Thallaparthi also known as Janardhan sir (an AIR-251 in JEE, an IIT-M alum, and a passionate physics teacher for the past 14 years) makes videos on intriguing physics challenges and concepts for pre-college students which is highly beneficial for students appearing in JEE or Physics olympiads.

 [Physics Sir JEE Janardhan](#)  [Physics Sir JEE](#)

 [PhysicsSirJee.in](https://PhysicsSirJee.in)

# Committee

Badal Panchani

Abhiram Cherukupalli

# Problem

# Proposers

Aditya

AKIII

Atharva Nilesh Mahajan

Atharv Shivram Mahajan

Harshit Gupta

Hemansh Shah

Janardanudu Thallaparthi

Muhamed Yaseen

Nimarjeet Bajwa

Nitin Sachan

Samar Yadav

Tarpan Ghosh

# Tech Team

Aayush Anand

Aditya Singh

Arhaan Ahmad

Badal Panchani

Yash Bughani

# Registration

[Register for Fizika](#)

[@fizika.gramoly.org/contest](#)

Registrations are Open till 30th August

## Eligibility

This is an open Physics Challenge for everyone

Anyone from Middle school to a retired professor can participate

Category A:

for 1st year of undergraduate student and below

Category B:

Open for anyone (including A category students if they want to compete in the open pool)

However only A category Participants are eligible for the prizes

## Sample Problems

[Sample Problem 1 by Indian School of Physics](#)

[Sample Problem 2 by Physics Sir JEE Janardhan](#)

# Sponsors




## Art of Problem Solving

Art of Problem Solving is a creative problem solving community filled with challenging problems that require creativity and persistence to solve. Art of Problem Solving offers a wide variety of free resources for avid problem solvers, including hundreds of videos and interactive tools like Alcumus, a popular adaptive learning system. Also, AoPS Online community forums are the place for creative problem solvers to connect, question and collaborate. They have a forum for each level and category.

 [artofproblemsolving.com](https://artofproblemsolving.com)

## Math

Mathcha is a Mathematics Online Editor (or Math Editor) and it's a WYSIWYG Editor (What you see is what you get). You can access from anywhere via your web browser. It has Very rich sets of symbols, layouts for your mathematics editing. Quickly insert mathematic symbols with Suggestion Box (without knowing LaTeX)

 [mathcha.com](https://mathcha.com)



## Replit

Replit is a simple yet powerful online IDE, Editor, Compiler, Interpreter, and REPL. Code, compile, run, and host in 50+ programming languages.

 [replit.com](https://replit.com)

## Overleaf

Overleaf is a startup and social enterprise that builds modern collaborative authoring tools for scientists — like Google Docs for Science. Our primary product is an online, real time collaborative editor for papers, theses, technical reports and other documents written in the LaTeX markup language.

 [overleaf.com](https://overleaf.com)



Theory, examples and challenging problems organized by topics, which would be useful for preparation to Physics competitions and advanced exams

 [PhysOlymp.com](https://PhysOlymp.com)

## PhysOlymp

# Prizes

## Round I

Gift worth 7\$ to all participants of Round I attempting Round II

## Round II

Prizes worth 120\$ to top 200 participants of Round II

## Round III

Top 3	180+48+25\$/- Each
Top 10	180+48\$/- Each
Top 50	48\$/- Each

**Certificates to all participants**